FIG.1
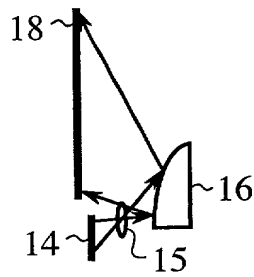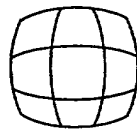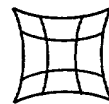

PROJECTING OPTICAL SYSTEM ~17

FIG.2

(A)   (B)   (C)   (D)

FIG.3

FIG.4

FIG.5

FIG.6

FIG.7

(A)

(B)

(C)

(D)

FIG.8

FIG.9

FIG.10

REFRACTIVE INDEX n_1 REFRACTIVE INDEX n_2

$n_1 < n_2$

FIG.11

------- BLUE OPTICAL PATH

——— RED OPTICAL PATH

FIG.12

FIG.13A

FIG.13B

FIG.13C

FIG.14

FIG.15

FIG.16

FIG.17

FIG.18

FIG.19A

FIG.19B

FIG.20

FIG.21

FIG.22

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	∞	0		
	3	-14.66425866	1	1.673	32.2
	4	19.57365899	3.4	1.800	42.3
a1	5	-71.52517928	0.2		
	6	46.57431333	5.7	1.734	51.1
	7	-18.29405936	0.2		
	8	-40.70466802	2.8	1.689	31.2
	9	29.58192706	0.601907206		
	10	40.63225731	10.4	1.734	51.1
	11	-18.55101371	0.2		
	12	-21.25419861	1.2	1.620	36.3
	13	36.18745731	18	1.805	25.5
	14	-52.79556347	18.44366577		
	15	-22.2362126	2.6	1.699	30.1
	16	-373.1950411	0.2		
	17	-377.4162065	1.5	1.583	30.2
a2	18	-377.4162065	28		
	19	-36.51210431	4.3	1.493	58.3
a3	20	-27.84174798	200		
a4	21	99.76542177	-185	mirror	
	22	∞	235	mirror	
	23	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	18(a2)
k	-27.07818351	411.8441246
A	5.8307554E-05	7.9259800E-06
B	2.2448345E-07	1.3052778E-08

SURFACE NO.	20(a3)	21(a4)
k	-0.185161669	-4.423779483
AR1	0	0.001258226
AR2	0.003607536	-0.000570833
AR3	-2.0171885E-05	1.9194137E-07
AR4	2.9870872E-06	-3.4523509E-09
AR5	1.2983498E-07	5.7545484E-11
AR6	-6.5096954E-09	2.1100900E-14
AR7	6.2670569E-11	-2.1391081E-15
AR8	1.9677727E-12	5.9659829E-18

FIG.23B

FIG.23C

FIG.23A

THICKNESS

FIG.24B

FIG.24A

FIG.24C

FIG.25B

FIG.25A

FIG.25C

FIG.26

FIG.27A

62

62A   62B   62C

63

FIG.27B

62

62D   62E   62F

63

FIG.27C

62

62G   62H

63

FIG.28

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	-20.6576453533	4.7	1.468	33.8
	3	-80.5590059694	0.2		
	4	105.1808714030	9	1.795	45.4
	5	-22.7193673760	0.856893940799		
	6	-17.3195136863	1.5	1.699	30.1
	7	-36.5709492186	0.1		
	8	∞	0		
	9	-117.4048328480	8.4	1.734	51.1
	10	-18.4433151695	0.610560115593		
	11	-18.0444912892	2	1.717	29.5
	12	58.2778027126	0.1		
	13	60.6427596822	13.5	1.755	52.3
	14	-48.8581369974	22.9151946067		
	15	134.5886723560	1.5	1.670	39.3
	16	50.1278660368	0.2		
	17	50.1825926071	10.4	1.805	25.5
	18	-127.7639461820	28.4346465294		
	19	-37.7652148481	2	1.805	25.5
	20	-67.5410544326	32.6137406027		
	21	-38.6933083141	1.5	1.805	25.5
a1	22	-72.6271254361	200		
a2	23	97.9695439905	-185		mirror
	24	∞	235		mirror
	25	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	22(a1)
k	0
A	2.14260670628E-06
B	-4.79111799587E-10
C	-7.8046619422E-14

SURFACE NO.	23(a2)
k	-5.24681962734
AR1	0.00196450411864
AR2	-0.000239993326253
AR3	3.63342308137E-07
AR4	-9.24814356675E-09
AR5	7.39934860564E-12
AR6	2.02289771668E-13
AR7	-3.98993312603E-16
AR8	-6.84585972298E-19

FIG.29

FIG.30

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	∞	0		
	3	-12.2904711278	4.4	1.805	25.5
	4	-16.4195184751	0.2		
	5	104.5354229330	5.7	1.788	47.5
	6	-19.6319108577	1.17708106134		
	7	-17.3104022925	1	1.805	25.5
	8	-99.5878191538	3.78999966183		
	9	-64.4356830029	1.8	1.689	31.2
	10	405.8043036740	0.1		
	11	205.5484851810	3.8	1.773	49.6
	12	-37.9436126442	16.3275458444		
	13	351.0732445020	5.2	1.805	39.6
	14	-66.7950420770	34.6140975436		
	15	-25.3154161226	1.3	1.581	40.9
	16	-49.5460449762	28		
	17	-30.6367731626	1.3	1.487	70.4
a1	18	-41.3463744375	200		
a2	19	99.7565078437	-185		mirror
	20	∞	235		mirror
	21	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	18(a1)	19(a2)
k	0.26122774128	-4.84979881319
AR1	5.08543725099E-04	0.00113628431
AR2	-2.31479750093E-04	-3.98908468387E-04
AR3	-1.06950444718E-05	1.91130104677E-07
AR4	3.86431430675E-06	-5.95426848631E-09
AR5	-4.74490920644E-08	4.64306112540E-11
AR6	-9.03166761795E-10	6.54614682822E-14
AR7	3.49012367035E-11	-1.74594047087E-15
AR8	5.98706752604E-14	4.67473510700E-18

FIG.31

62
62F
62E
62D
63
64

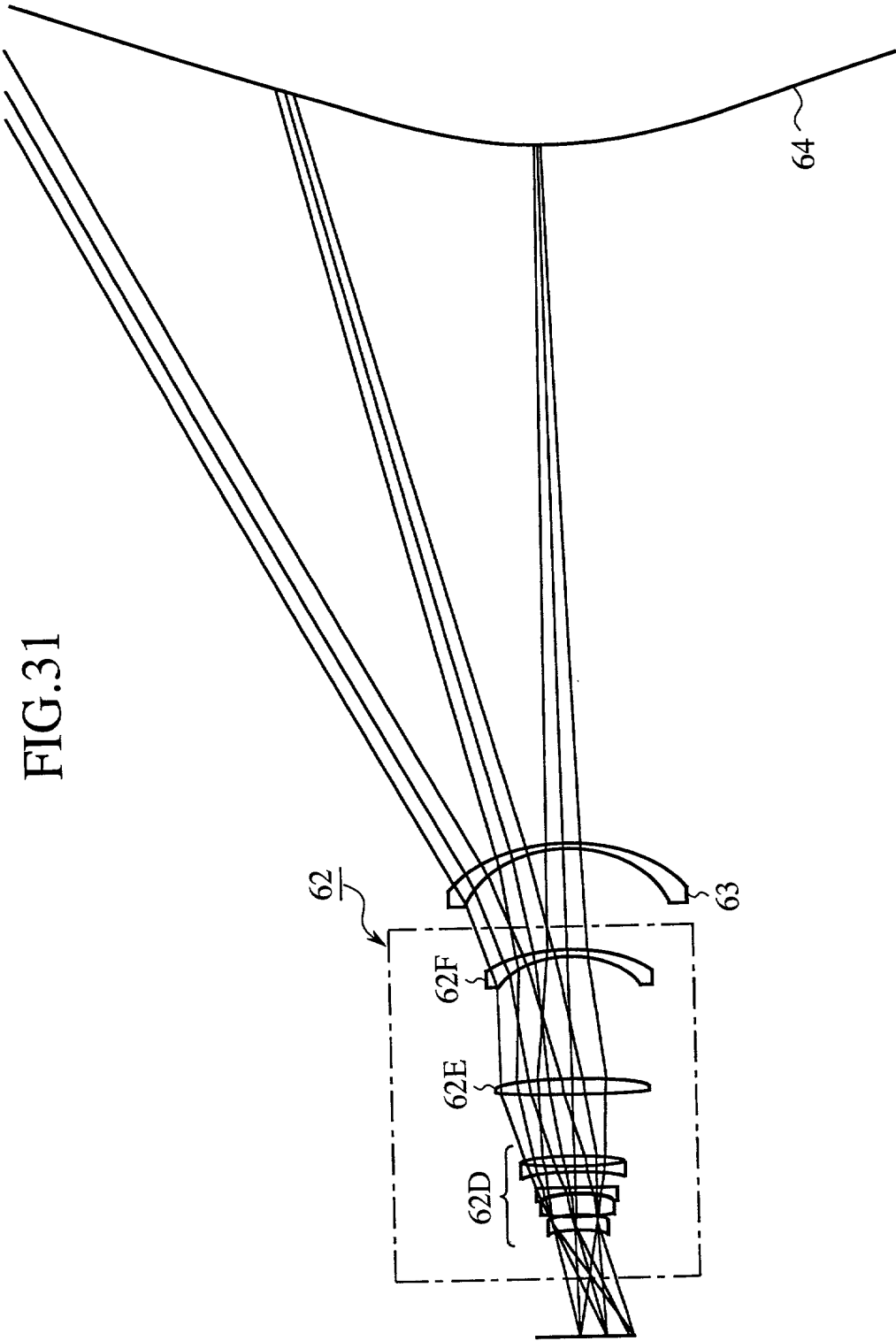# FIG.32

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	∞	0		
	3	-14.8674137388	1	1.673	32.2
	4	18.5559337996	3.4	1.800	42.3
a1	5	-74.0536848715	0.2		
	6	43.6696369615	5.7	1.734	51.1
	7	-18.5192833307	0.2		
	8	-40.4744736638	2.8	1.689	31.2
	9	28.1242054109	0.721410946123		
	10	39.1984702090	10.4	1.734	51.1
	11	-18.6885145614	0.2		
	12	-21.0924464244	1.2	1.620	36.3
	13	34.4444350214	18	1.805	25.5
	14	-51.9422716099	18.3565287687		
	15	-22.3972908894	4.1	1.699	30.1
a2	16	-479.2220790420	28		
	17	-36.7674341411	4.3	1.487	70.4
a3	18	-27.7830763359	200		
a4	19	99.7654217668	-185		mirror
	20	∞	235		mirror
	21	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	16(a2)
k	-30.6753040764	689.5547308060
A	5.71039286720E-05	7.13647300379E-06
B	2.25311896143E-07	1.19485813073E-08

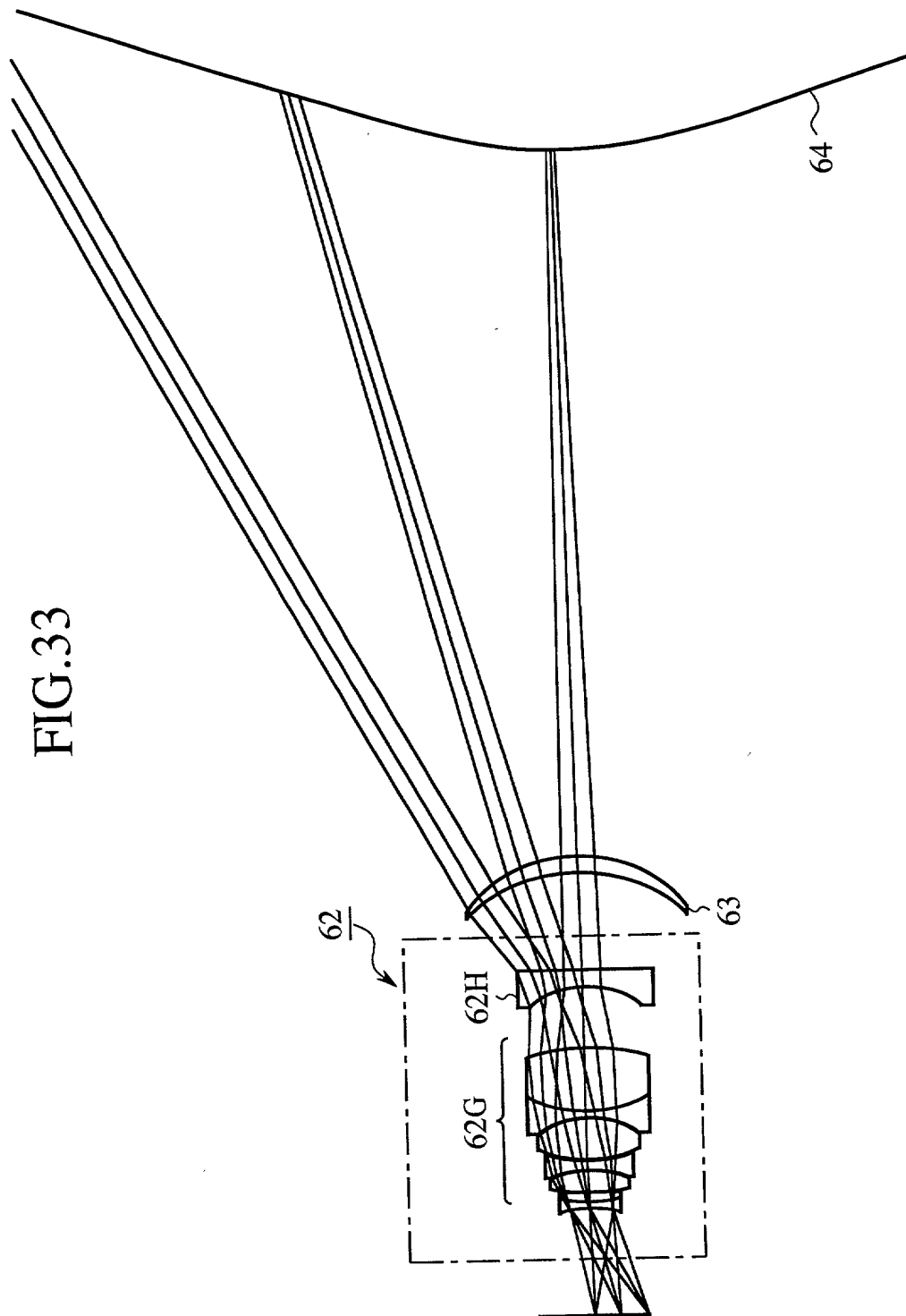| SURFACE NO.	18(a3)	19(a4)
k	-0.1793477113	-4.4237794828
AR1	0	0.0012582257858
AR2	0.00365144111288	-0.000570832798628
AR3	-2.08418127864E-05	1.91941370309E-07
AR4	3.06790134130E-06	-3.45235087113E-09
AR5	1.28809224318E-07	5.75454836583E-11
AR6	-6.46419170810E-09	2.11008995385E-14
AR7	5.60800488063E-11	-2.13910807996E-15
AR8	2.10739642573E-12	5.96598292076E-18

FIG.33

62

62H

62G

63

64

FIG.34

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
	2	∞	0		
	3	-15.44465	1	1.673	32.2
	4	22.29631	3.4	1.806	40.7
a1	5	-213.55978	0.2		
	6	39.68662	5.7	1.697	55.5
stop	7	-21.23434	0.2		
	8	-76.49347	2.8	1.689	31.2
	9	24.81811	0.28796		
	10	28.11617	10.0	1.734	51.1
	11	-19.46732	0.5		
	12	-21.07916	2.0	1.620	36.3
	13	41.20070	17.2	1.805	25.5
	14	-47.74581	20.2		
	15	-19.64666	1.8	1.699	30.1
	16	-285.50057	1.2		
	17	-296.46506	2.3	1.583	30.2
a2	18	-296.46506	22		
	19	-41.83187	6.5	1.493	58.3
a3	20	-28.78769	222.6		
a4	21	101.38793	-185		mirror
	22	∞	235		mirror
	23	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	18(a2)
k	94.803794	231.121259
A	5.68235E-05	7.22298E-06
B	9.96524E-08	1.21095E-08

SURFACE NO.	20(a3)	21(a4)
k	-0.034091	-4.2611
AR1	0	0.0017037
AR2	2.3760E-03	-5.4703E-04
AR3	-1.3655E-05	2.2681E-07
AR4	2.0976E-06	-3.7501E-09
AR5	1.6646E-07	5.5657E-11
AR6	-7.5921E-09	2.2956E-14
AR7	6.4636E-11	-2.0653E-15
AR8	2.7930E-12	5.8043E-18

FIG.35

46

47

47

40

FIG.36

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
	2	∞	0		
	3	-17.34243	1	1.673	32.2
	4	18.31171	3.4	1.806	40.7
a1	5	-431.65942	0.2		
	6	29.08428	5.7	1.697	55.5
stop	7	-22.39460	0.2		
	8	-70.37449	2.8	1.689	31.2
	9	20.78432	0.422916		
	10	24.46057	10	1.734	51.1
	11	-25.60922	0.5		
	12	-27.87924	2.0	1.620	36.3
	13	33.45787	17.2	1.805	25.5
	14	-48.80317	20.2		
	15	-16.72859	1.8	1.699	30.1
	16	-472.97398	1.2		
	17	-432.97164	2.3	1.583	30.2
a2	18	-432.97164	18.59086		
	19	-47.05214	12	1.487	70.4
	20	-31.45896	0.2		
	21	-34.76999	2	1.493	58.3
a3	22	-36.76734	205.6		
a4	23	100.46532	-185		mirror
	24	∞	235		mirror
	25	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	18(a2)
k	1123.385176	453.751298
A	5.72413E-05	1.02654E-05
B	1.15746E-07	-1.71142E-09

SURFACE NO.	22(a3)
k	0.306525
A	8.66086E-07
B	1.02860E-09
C	-1.51387E-12
D	1.15559E-15

SURFACE NO.	23(a4)
k	-4.3207
AR1	2.0932E-03
AR2	-5.3836E-04
AR3	3.0012E-07
AR4	-3.7476E-09
AR5	5.3519E-11
AR6	9.5182E-15
AR7	-2.0763E-15
AR8	6.2448E-18

FIG.37

46

47

47

47

40

FIG.38

CONFIGURATION DATA

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	-13.4261664433	4.4	1.805	25.5
	3	-18.5697706537	0.1		
	4	∞	0		
	5	96.5265031257	5.7	1.788	47.5
	6	-17.4308819114	0.397498402225		
	7	-16.4228675060	1	1.805	25.5
	8	-60.2043783294	1.342174017		
	9	-73.1869001667	1.8	1.689	31.2
	10	173.0147244620	0.780042494674		
	11	-129.3791808580	2.8	1.773	49.6
	12	-33.6477898040	15.8750139763		
	13	196.0051080580	5.2	1.805	39.6
	14	-74.0063177141	52.0143705416		
	15	-28.5012732493	1.3	1.581	40.9
	16	-55.6266733382	28		
	17	-30.9418208415	1.3	1.487	70.4
a1	18	-45.9668803671	128		
a2	19	85.3955888127	-190		mirror
	20	∞	235		mirror
	21	∞	0		

ASPHERICAL SURFACE COEFFICIENT

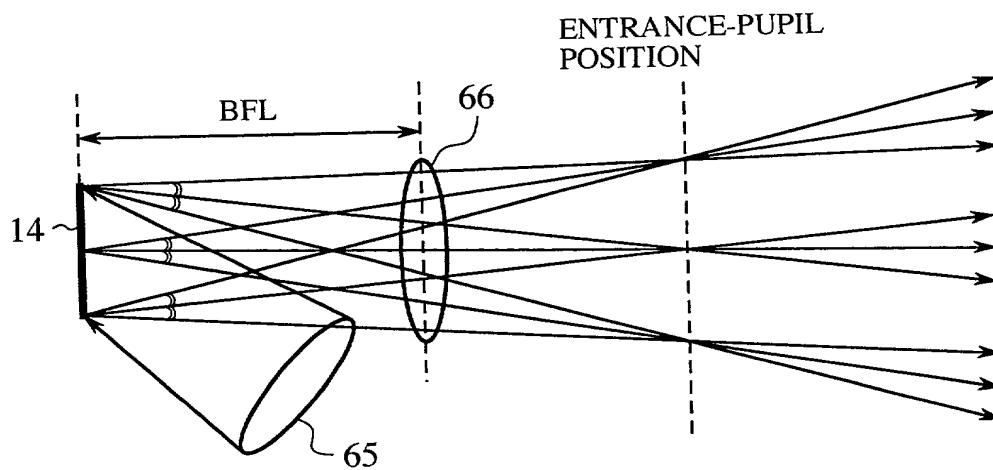| SURFACE NO.	18(a1)	19(a2)
k	0.192778928749	-5.6077761791170
AR1	1.774508723E-03	-0.00114723527653
AR2	-8.66337658673E-04	-4.95421889495E-04
AR3	-4.78199895283E-07	-9.97000490749E-08
AR4	4.28880134809E-06	-6.48715736783E-09
AR5	-3.13809231047E-08	4.81877304832E-11
AR6	-8.86192485666E-10	8.84967561950E-14
AR7	2.69189766537E-11	-1.65622637923E-15
AR8	-8.33108856115E-14	4.18083936646E-18

FIG.39

PATH-BENDING
POSITION

FIG.40A

ENTRANCE-PUPIL
POSITION

BFL   66

14

65

FIG.40B

ENTRANCE-PUPIL
POSITION

BFL   66

14

65

FIG.41A

FIG.41B

FIG.42A

THICKNESS

HEIGHT OF UNDER-THE-SCREEN PART

18

22

60

75

61

59

m

EXIT-PUPIL POSITION

58z

FIG.42B

FIG.42C

f

c

b

a

60

61

60

59

θ

P

Q

EXIT-PUPIL POSITION

73

58

g

58z

EXIT-PUPIL POSITION

FIG.43A

FIG.43B

FIG.44A

THICKNESS

18

22

HEIGHT OF UNDER-THE-SCREEN PART

60

75

R

m

EXIT-PUPIL POSITION

61   58   58z

FIG.44B

FIG.44C

g

f

a

EXIT-PUPIL POSITION

59

61

58z

60

θ

60

58

73

FIG.45

FIG.46

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	∞	0.759413002		
	3	-18.08246509	1.293319809	1.645	34.2
	4	14.76967369	3.046801019	1.812	46.5
a1	5	-89.85177909	0.1		
	6	38.06047971	6.316794446	1.652	57.8
	7	-22.10508829	0.1		
	8	-369.4581445	0.75	1.669	35.9
	9	30.52687812	3.514448063		
	10	178.9300355	5.999639512	1.755	51.6
	11	-18.24854958	0.1		
	12	-20.32053065	0.75	1.609	37.1
	13	18.88427392	7.742297755	1.598	61.5
	14	118.7889006	6.210410756		
	15	75.82426822	11.42955737	1.805	25.4
	16	-45.48096773	23.85514754		
	17	-23.81858954	0.75	1.605	37.6
	18	-78.5219672	0.948010192		
	19	-51.73173658	0.75	1.578	41.3
a2	20	234.0322249	1.220004284		
	21	-80.15802174	8.419857503	1.608	60.9
	22	-20.55147589	0.75	1.808	30.7
a3	23	-48.10173307	2.848868085		
	24	-3046.703797	1.735926726	1.722	28.6
a4	25	-2.400127241	208.6471271		
a5	26	98.10117098	-185		mirror
	27	∞	235		mirror
	28	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	20(a2)
k	-4.32940673132E+17	-1.21836467670E+03
A	6.70013658492E-05	-5.88743894511E-06
B	1.37864501703E-07	-1.73552289497E-08
C	-7.06479501573E-10	1.18834320118E-11
D	5.53966960363E-12	-6.80318146301E-14

SURFACE NO.	23(a3)	25(a4)
k	-4.724966832	-1.50277006191E+15
A	7.74200201398E-06	-4.02340217867E-06
B	1.45468946297E-10	1.93027721059E-09
C	6.05222618687E-12	1.94579724047E-12
D	2.84368236883E-15	-5.14946061841E-15

SURFACE NO.	26(a5)
k	-4.196831481
AR1	0.002610563
AR2	-0.000642464
AR3	-4.3515321786E-07
AR4	-3.6279999567E-09
AR5	1.0315413556E-10
AR6	-1.0512922326E-13
AR7	-2.4533992418E-15
AR8	5.0201588256E-18
AR9	-7.7746688347E-21
AR10	1.8233746123E-23
AR11	4.0004474833E-25
AR12	1.9572075845E-27
AR13	-1.0853722256E-29

FIG.47

REFRACTING
OPTICAL LENS

FIG.48

90B

90A

89

14

88

REFRACTING
OPTICAL LENS

~87

FIG.49

REFRACTING OPTICAL LENS

91
92
93
94
95
96
97
98
99

FIG.50

SCREEN

100
101
102

FIG.51

FIG.52

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	30		
stop	2	∞	0		
	3	-36.20569316	2.450194072	1.755200	27.5
	4	12.28575345	2.84681536	1.743300	49.3
a1	5	-51.08200239	0.1		
	6	60.74463277	4.440052074	1.729160	54.7
	7	-11.85997421	0.75	1.805181	25.5
	8	-87.60955983	18.16014798		
	9	-100.7895973	7.55	1.805181	25.5
	10	-31.95229299	0.1		
	11	55.14907044	9.008423098	1.805181	25.5
	12	-151.9493125	5.05		
	13	1123.09334	20	1.696802	55.5
	14	-24.68341928	6.516931913	1.805181	25.5
	15	-226.0041685	1.971694287		
	16	-47.77345182	1.3	1.806100	33.3
	17	19.4398449	6.997754926	1.622994	58.1
	18	122.6856621	9.290681858		
	19	-18.03371133	1	1.805181	25.5
	20	-61.36251152	0.2		
	21	-213.3989174	12.93782856	1.496997	81.6
	22	-27.11650652	0.3	1.525	49.0
a2	23	-27.1165053	220		
a3	24	97.9514514	-180		mirror
	25	∞	230		mirror
	26	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	5(a1)	23(a2)
k	-4.32940673132E+17	-6.44192632533E-02
A	2.06464810175E-05	2.25891515654E-06
B	4.22130612543E-08	1.27763942489E-09
C	-4.28109161934E-10	-1.48949338494E-12
D	3.18505494008E-12	4.41143555338E-15

SURFACE NO.	24(a3)
k	-5.890257058
A	-1.68371401519E-09
B	-3.15175891126E-13
C	1.85045591079E-17
D	-4.44896288674E-22
E	4.06924422352E-27

FIG.53

REFRACTING OPTICAL LENS

FIG.54

OBJECT HEIGHT (mm)

DISTORTION (%)

FIG.55

FIG.56B

FIG.56C

FIG.56A

FIG.57A

104

104F'

104R'

104F

104R

105

FIG.57B

104

104F

104R

104R'

104F'

105

FIG.58A

FIG.58B

FIG.58C

FIG.59

FIG.60A

114

115

n1

n2

T1

T2

FIG.60B

114

115

n1

n2

$T1+\Delta T$

$T2-\Delta T$

FIG.60C

114

115

n1

n2

T3

$T2-(T3-T1)$

FIG.61

	SURFACE NO.	RADIUS OF CURVATURE (mm)	THICKNESS (mm)	REFRACTIVE INDEX nd	ABBE'S NUMBER νd
	1	∞	16.968		
	2	∞	4.5	1.487488	70.4
	3	∞	10		
stop	4	∞	0		
	5	-32.67553228	2.2	1.755200	27.5
	6	12.58063824	3	1.743300	49.3
a1	7	-52.90163133	0.2		
	8	61.0404767	4.4	1.729160	54.7
	9	-11.15923642	0.75	1.805181	25.5
	10	-76.60896233	15.79661203		
	11	-124.8193679	7	1.805181	25.5
	12	-38.93002102	0.2		
	13	-443.3986638	7	1.805181	25.5
	14	-52.34621034	0.2		
	15	79.93164049	7	1.805181	25.5
	16	-309.0156537	5.05		
	17	-154.4333819	20	1.696802	55.5
	18	-23.63819092	5.65	1.805181	25.5
	19	-72.50920655	0.1		
	20	-135.8874032	1.3	1.806100	33.3
	21	19.12119784	6.033332559	1.622994	58.1
	22	47.30795139	10.38100593		
	23	-17.33118223	1	1.805181	25.5
	24	-107.7455893	0.2		
	25	6275.660982	13.85243075	1.496997	81.6
	26	-28.5622612	0.3	1.517900	52.3
a2	27	-28.56225984	220		
a3	28	100.7024021	-180		mirror
	29	∞	230		mirror
	30	∞	0		

ASPHERICAL SURFACE COEFFICIENT

SURFACE NO.	7(a1)	27(a2)
k	-4.32940673132E+17	-2.28341058574E-01
A	2.12269026040E-05	6.27190024566E-07
B	3.29700420778E-08	1.37772750580E-10
C	-8.29121655424E-10	-2.97585526938E-12
D	8.20349889370E-12	4.49026971395E-15

SURFACE NO.	28(a3)
k	-5.53539236314
A	-1.01852653476E-08
B	3.39532791265E-13
C	-7.71671397273E-18
D	8.40279684117E-23

FIG.62

REFRACTING OPTICAL LENS

76

77

78

79

ho

hm

hi

80

81

82

115

14

FIG.63A

FIG.63B

FIG.64A

FIG.64B

FIG.65A

FIG.65B

FIG.66

FIG.67A

116

FIG.67B

116

FIG.67C

116

FIG.68

FIG.69

132

133

FIG.70A

FIG.70B

FIG.70C

134

138

141W

141

141N

142

139N

139W

134R

134F

135P

136

135

139

140

134O

138

138H

134

135P

136

136H

137

137H

139

139N

139W

136

140

FIG.71A

FIG.71B

FIG.71C

FIG.72A

FIG.72B

FIG.73A

137 ~ ⬭   ⬭ ~ 138

134 ~

135P

145   144

143 ~   ~ 143

FIG.73B

137 ~ ⬭   ⬭ ~ 138

134 ~

135P   146

143 ~   ~ 143

147

FIG.73C

137 ~ ⬭   ⬭ ~ 138

134 ~

135P

⬭ ~ 136

FIG.74

FIG.75

FIG.76

157G   157G

148   149

150

T1   ρ1   158

L0   L1

L2   157

T2   ρ2

159   160   151

CONTROL UNIT

161

FIG.77A

FOCUS INFORMATION

165   166   164   166   164   167

168

163

165

162

161

CONTROL UNIT   FEEDBACK CONTROL

149   148   150

FIG.77B

164

166

167

FOCUS
INFORMATION

165

CCD   168

FIG.78A

FIG.78B

FIG.78C

FIG.79

FOCUS INFORMATION

164

165   166   164

166   164

168

163

165

161   162

CONTROL UNIT   FEEDBACK CONTROL

149   148   150

FIG.80

FIG.81

FIG.82A

170O

170

171

172

FIG.82B

170O

170

171

173

FIG.83

```
                    ┌─────────────┐
                    │    START    │
                    └──────┬──────┘
                           │
                           ▼
          ┌───────────────────────────────┐
          │    ADJUST ALIGNMENT OF         │
          │    CONVEX MIRROR TO JIG SCREEN │ ～ ST1
          └───────────────┬───────────────┘
                          │
                          ▼
          ┌───────────────────────────────┐
          │    ADJUST ALIGNMENT OF         │
          │    PATH-BENDING MIRROR TO      │ ～ ST2
          │    CONVEX MIRROR               │
          └───────────────┬───────────────┘
                          │
                          ▼
          ┌───────────────────────────────┐
          │    ADJUST ALIGNMENT OF         │
          │    LENS-HOLDING FLANGE BY      │ ～ ST3
          │    HOLED REFLECTOR             │
          └───────────────┬───────────────┘
                          │
                          ▼
          ┌───────────────────────────────┐
          │    PLACE REFRACTING OPTICAL    │
          │    LENS ON LENS-HOLDING FLANGE │ ～ ST4
          └───────────────┬───────────────┘
                          │
                          ▼
          ┌───────────────────────────────┐
          │    PROJECT IMAGE OF MICRO-MIRROR│
          │    DEVICE ONTO JIG SCREEN      │ ～ ST5
          └───────────────┬───────────────┘
                          │
                          ▼
                    ┌─────────────┐
                    │   FINISH    │
                    └─────────────┘
```
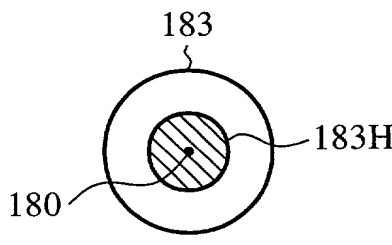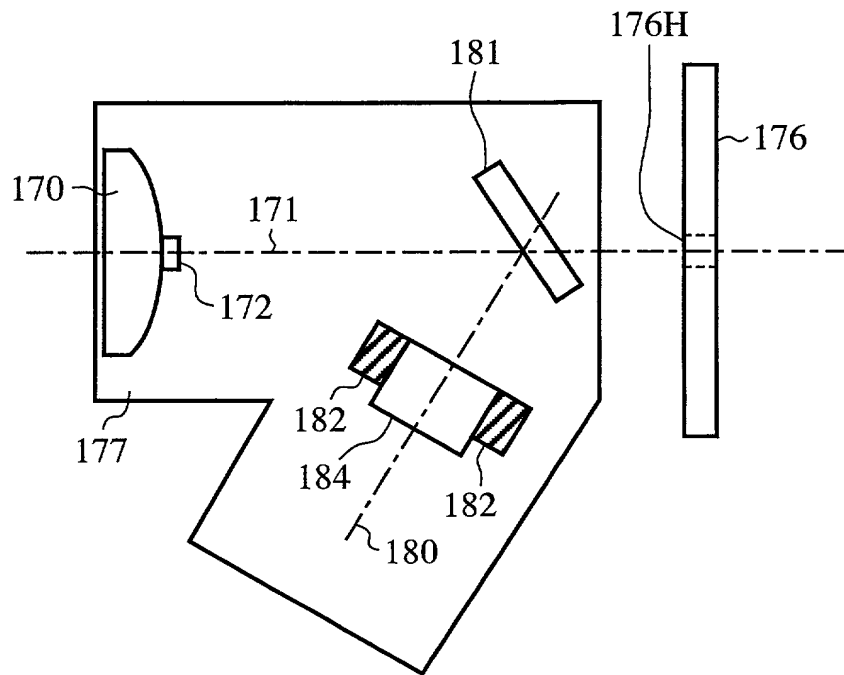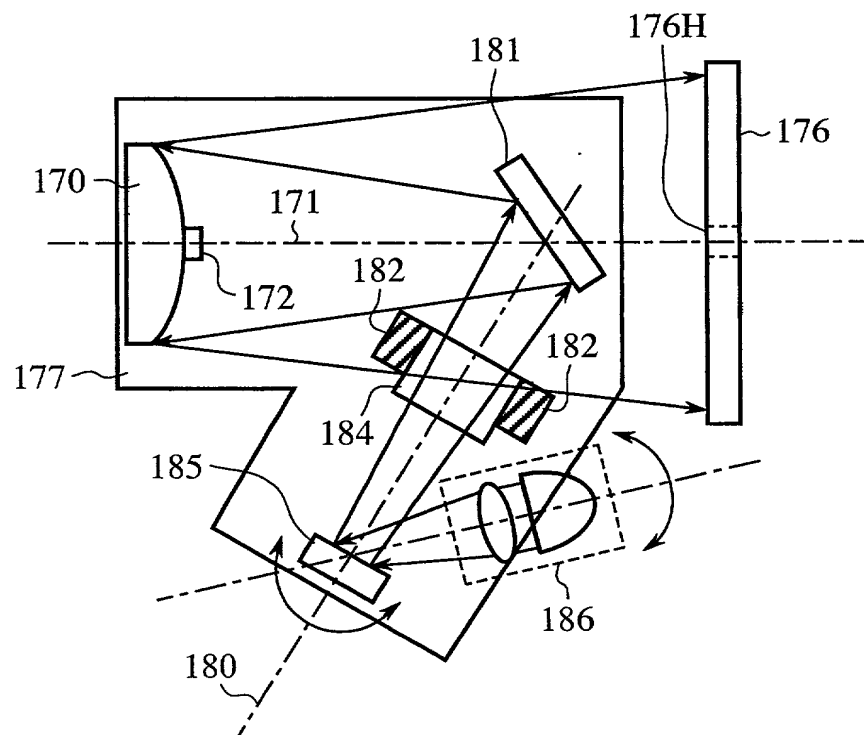
FIG.84A

FIG.84B

FIG.85

FIG.86A

FIG.86B

FIG.87

FIG.88

FIG.89

FIG.90A
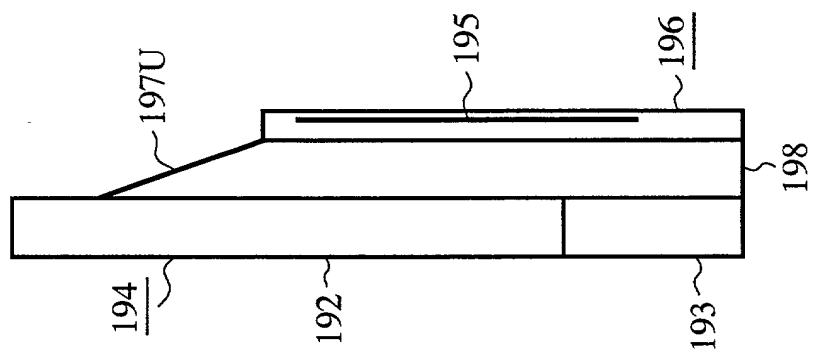
FIG.90B

FIG.90C

192U

192

194

193

198

197U

195

196

194

192

193

198

197L

196

195

197R

FIG.91A
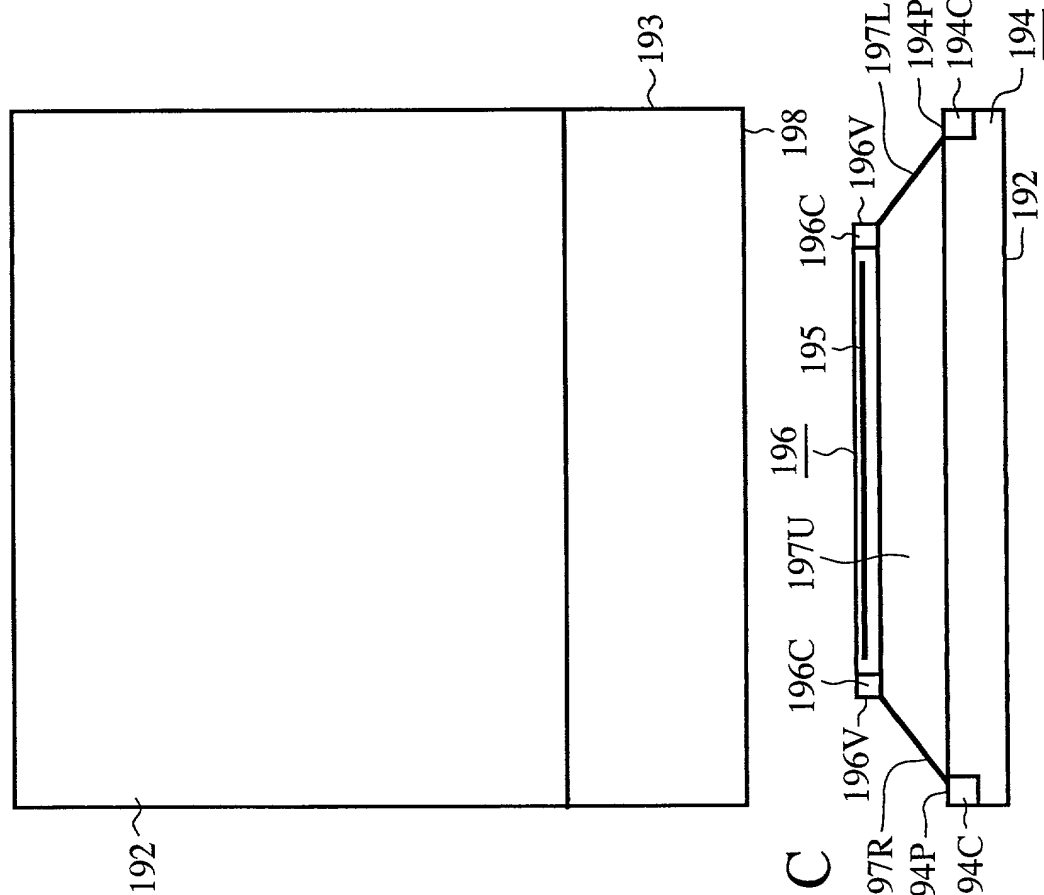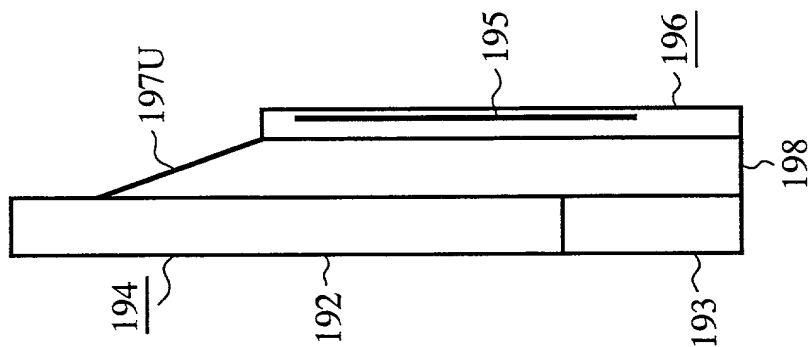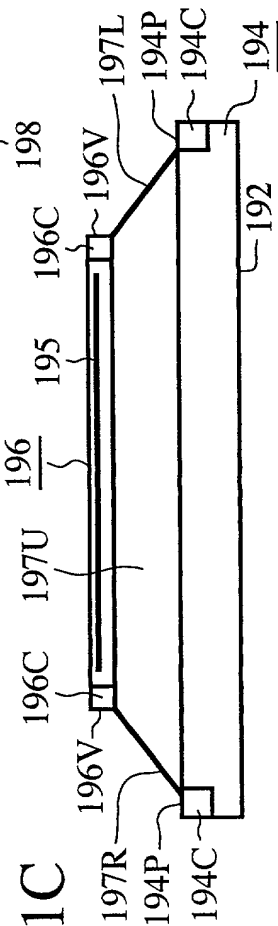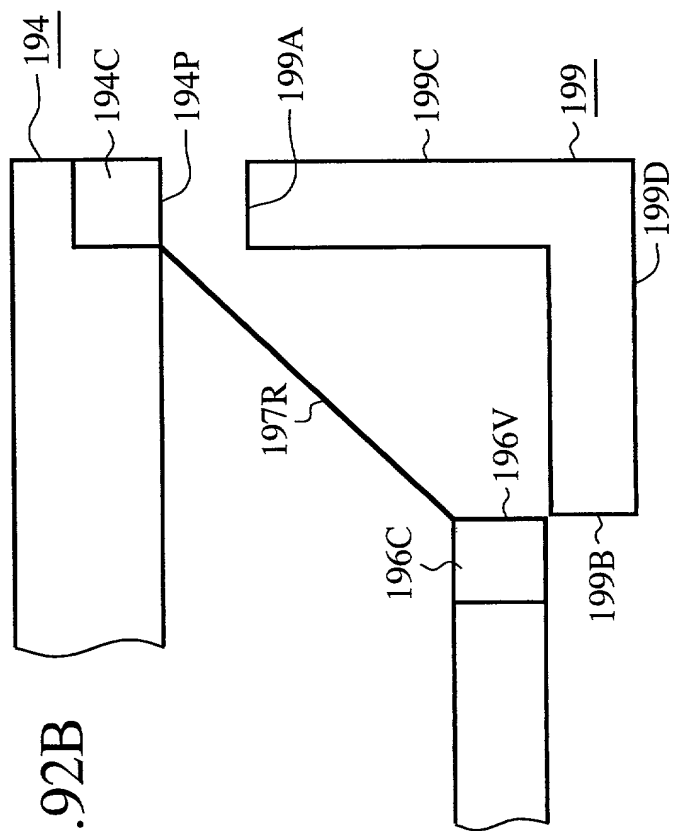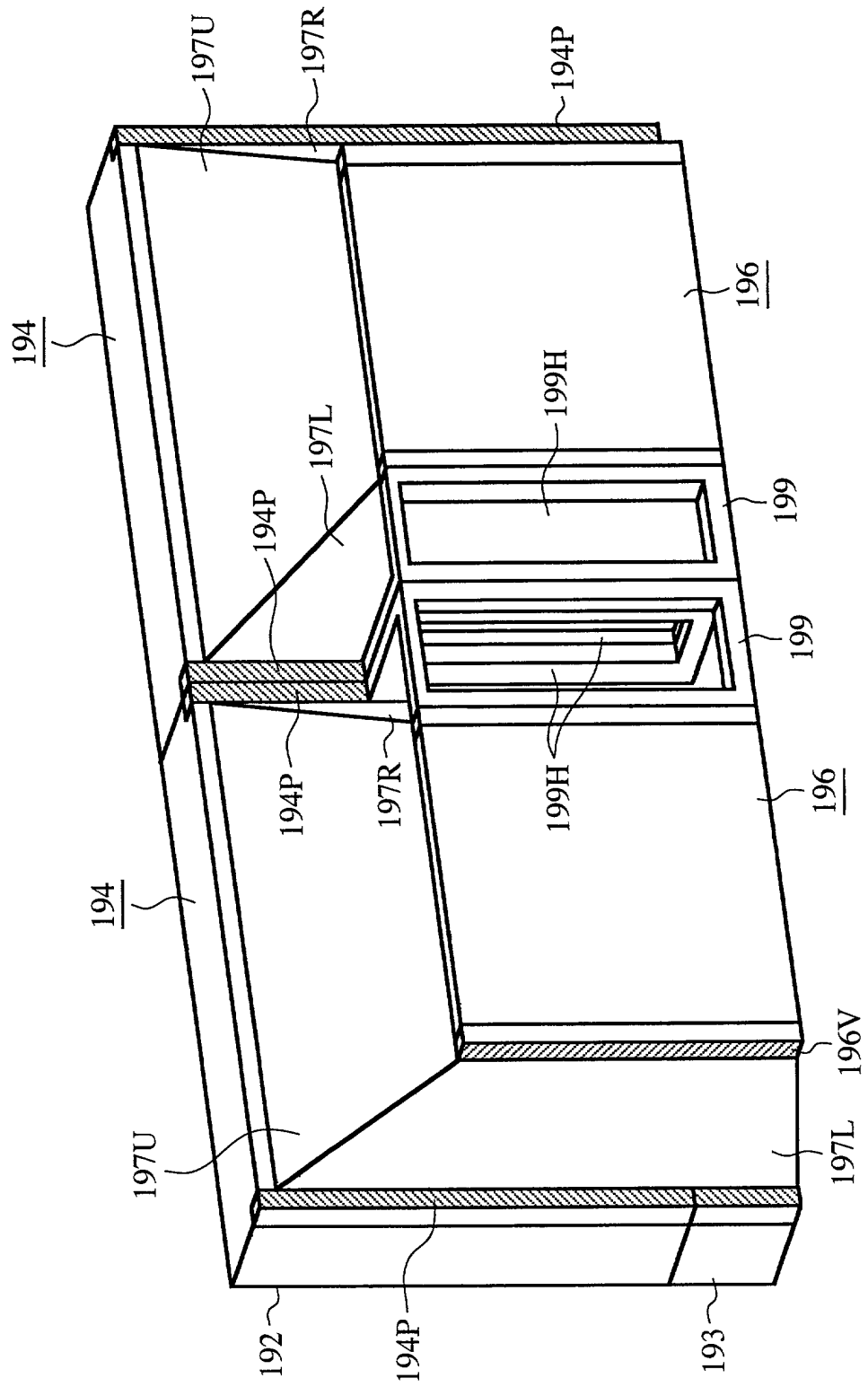
FIG.91B

FIG.91C

FIG.92A

FIG.92B

FIG.93

FIG.94B

199
199
197U
197U
199 199
199 199
197U
197U
199
199H 199
199H

FIG.94A

192
192
193
193
193
192
192

FIG.95

FIG.96